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PURE QUARTZ RETORTS.

Chemists Solve the Problem of Resistance in Extreme Heat.

erc, that could be depended on to re- quartz is obtained by using formaces more heat than any other material. ticles for the laboratory have been furnace must be made

manufactured out of pure quartz.

ing extraordinary high temperatures.

rglobe made up entirely of incandescent | Wallsend, in England.

Moreover, at Wallsend, England, and rect heat of the electric arc, but it be- quartz to endure exposure to tremenat Benel, near Bonn, in Germany, elec- comes too much contaminated by the duous temperatures; in fact, to use a tric means have been perfected where- particles that fly into it from the burn- homely metaphor quartz articles by furnaces and all other articles for ing ends of the arc. The method in | "don't feel the heat." laboratory purposes can be prepared the electric resistance furnace is to from pure quartz. It is even claimed permit the outer surface of the quartz quartz can be exposed to very high that in a short while furnaces can be to form a combination with the inner temperatures and yet the furnace itmade for manufacturing plants requir- carbon of the furnace and to use the self will remain so cool that combus-

grees of heat far, far above the melt- | The material used is a pure silver ing point of iron or even of platinum, sand that is 99.50 per cent silica, or Degrees of temperature, for instance, quartz. This sand is piaced in the approaching 2,000 degrees Centigrade- electric furnace and when about 2,000 equivalent to approximately 2,800 de- degrees Centrigrade have been pro- French engineer, the gyroscope is apgrees Fahrenheit. Quite naturally it duced the quartz sand becomes plastic plied indirectly to give automatic stais only in very few practical operations like very warm putty. It can now be billty. The fly-wheel is mounted in a that any manufacturer demands such a made into narrow tubes as much as gimbal frame, and an electric battery temperature which is not very far be- sixty-five feet in length and as much of eight or ten cells keeps it in motion

One great difficulty is the fact that It is marvelous, indeed, that mere molten quartz turns into gas when man has become able to produce and heated just a trifle above its melting handle such degrees of heat and the point. However, all these chemical difficulties of securing vessels that can | and practical obstacles have been overhave been many. The intense heat re- ratories are beginning to acquire these ing retorts, test tubes, small furnaces, ourred to mold articles from pure snow-white utensils that can resist

Goods

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in perfect

condition

ture that human ingenuity can pro- furnaces heated by high electric cur- quartz articles is their insensibility to duce. This is now said to have been rents that are interrupted by the car- any changes in temperature. They ofacquired in a new method whereby ar- bon, from which an electrical resistance, fer practically no resistance to the pas-Quartz can also be melted by the di- tance to heat waves is what enables

By high temperatures are meant de-

SCIENTIFIC MISCELLANY.

low the point at which this world as sixty-five pounds of the molten in a horizontal plane at that rate of would be resolved once more into a quartz has been handled at a time at about 10,000 revolutions per minute. As

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ontinues to rotate in the horizontal The vertical shaft, however, makes one of four electrical contacts, and this sets in operation the righting mechanism, two of the contacts conrolling the longitudinal balance and two the lateral balance. The action promptly restores the machine to its ormal position. A gust of wind, for xample, may incline the front of the eroplane downward, but the prompt losing of the electric current tips the rear wings forward, and equilibrium is

The new beginning of life on an isoated island is eagerly watched by aturalists, and now the Selborne solety has been able to study the new flora of a building site near the center of London. The lot was cleared about two years ago. Since then tweny-eight species of flowering plants and ferns have established themselves on it, and mosses, liverwort and other simple plants have appeared. Besides plants commonly distributed by the wind, the bracken, a fern difficult to transplant, has sprung up, presenting new problem for botanists.

A novel use has been found for the amous speech records of the Vienna Academy of Sciences. This great collection of phonograms was designed to preserve the spoken languages of all ands, with the idioms and variations of dialect, but on magnifying sections of the records 1,000 times, additional value was brought out in new light on the theary of sound. The "A" of the human voice was shown to be different from that of the frog's croak, while new revelations are expected from the study of the voice in disease and of minute variations of dialect.

That the method of taking food, as well as the food itself, has a great effect on the teeth has been pointed out by Dr. J. Sim Wallace in a paper to British dentists. Dental cavities result from the action of bacteria that rapidly multiply in starch, sugar and other fer mentable carbohydrates in contact with the teeth, and the dentist may divide he food into two classes-one tending o leave viscous and fermentable carohydrates about the teeth, and the other acting to brush them away. This uggests that food may be so chosen and eaten as to prevent teeth decay Each meal should have sufficient hard ood to stimulate mastication, with its excellent effect on gums, jaws, teeth deposits silt in its bed and along its thing over a million dollars and by tained that loss, and alimentary canal generally and banks until it raises itself high above heroic work averted the danger for Doubtless negotiations have taken should end with some article tending o remove the sticky carbohydrates from teeth and mouth. The pap-feedng of children is to be condemned, it flood which bursts through the aliuacon, toast, butter, coffee and tea itself raised, again finds the lowest hould take the place of the customary place for low water flow, and recomilk, porridge, bread and marmalade; mences the process. nd that other meals should have a irge proportion of hard foods.

region of central Dahomey, western perial valley. Africa. It proves to be a species of ingle-seeded underground pods, both must be done in Mexico. he form of a small American peanut. ind has but one or two seeds, usuall white, though sometimes black, red or

Hardened steel dies are produced by lectrolytic etching in a recently patented German process. A die-block of hard steel is first made and this is placed in contact with a plaster of Paris reverse model made conducting y saturation with sal ammoniac. With he special dynamo, with a capacity of 0 amperes at one to 15 volts, the dielock is etched to a depth of one-sixeenth of an inch in four or five hours

PASTING FEATHERS.

lke fishes' scales 'know how these drop off and what an unpleasantly bald appearance they give to on best hat trimmings. One woman has solved the problem by pasting then on as they come off. They were black in her case, and, so that the paste she used should not show, she paster which she dropped black ink and followed with any color ink to natch the feather, even the iridescent eathers (as these often are) being sually easy to match.

Another plan is to use court-plas er, although this is possible only with black and white feathers. The daster must be cut in little strips undation, for feathers of this sort e always what is called "made," nat is, stitched on to a backing of

CABBAGE SALAD WITH BEETS. Chop half a small cabbage very fine nd mix it with boiled salad dressng, using one-half cup salad dress ng to two cups of chopped cabbage. seets. These hearts may be cut out ith a small cookie cutter or they hay be easily cut out with a sharp onife, since it is not necessary that hey shall be perfect.

VELVET AND FUR.

ower part of the waist and the skirt round neck, and the elbow sleeves ere made of white fur. It suggested he polar regions. The hat worn with was made of velvet and fur to

THE COLORADO RIVER

Control Involves a Perplexing Problem of International

Comity It seems to be conceded that if the olorado river is left uncontrolled will within a few years, inevitably urn its entire flow into the depres don of which the Salton sea is the owest point and engulf the entire mperial valley in a great inland sea. In this the erratic river will only be ervals it has covered different parts



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request of the president during the tory and especially strong against As the stream flows it gradually recess of congress, advanced some- this government, by which it sus-

reimburse the company, not a cent consent. suggested that for breakfast fish, vial barriers which the stream has similar source.

The time has now arrived when the purpose. river is ready to break bounds, and all The question arises whether the ance of the river was caused by the engineers agree that if nothing is Mexican government will permit the operations of Americans, and that The new bean described by Aug done it is a question of but a short United States to do public work in Americans, should bear the entire 'hevaller grows underground to the time when an unusual flood will carry its territory,

Voadzela, a genus hitherto represented in the United States and part in ever. Once lodged, it has happened sary works, is an entirely different by only one species, which produces Mexico, but all the restraining work that they have been difficult to dis-

the time being.

a million dollars-not believed to be son with ours.

dge of a very small pea in a small irreparable disaster to the fertile Im- All governments object to permit- But the admission of our go ting any other government to enter ment, first to construct, and there Part of the threatened territory is upon their seil for any purpose what- after to police and protect the necessity

place and presumably our State De-Congress having thus far refused to partment expects to secure Mexican

can be expected now from that or any Mexico has, perhaps, more land in danger than this country, but the im-Congress, however, has appropriated provements are trifling in compari-

sufficient-to be expended for the It is understood that the Mexican government insists that the disturb-

cost of repairing the damage



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